

ABSTRACT

An ultrasonic flowmeter includes two ultrasonic transceivers (10, 16). Each of the ultrasonic transceiver 5 (10, 16) includes a transmitting body (1; 12) fixed to the outer peripheral surface of a measurement pipe (6) through which a fluid to be measured flows so as to surround the measurement pipe (6), and an ultrasonic transducer (2; 13) spaced from the outer peripheral 10 surface of the measurement pipe (6). The transmitting body (1) has axial end surfaces (8a, 8b) perpendicular to the axis of the measurement pipe (6). An axial end surface (7) of the ultrasonic transducer (2) is fixedly secured to the axial end surface (8b) of the transmitting 15 body (1), and the ultrasonic transducer (2) is extended and contracted in the axial direction by applying a voltage between the axial end surfaces (8a, 8b) of the ultrasonic transducer (2).